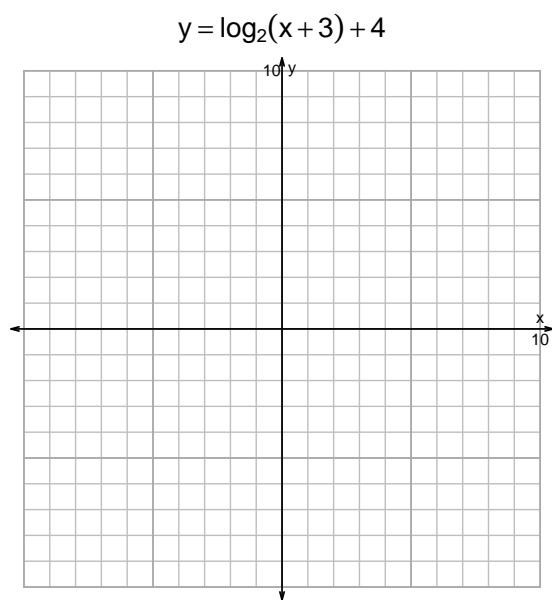
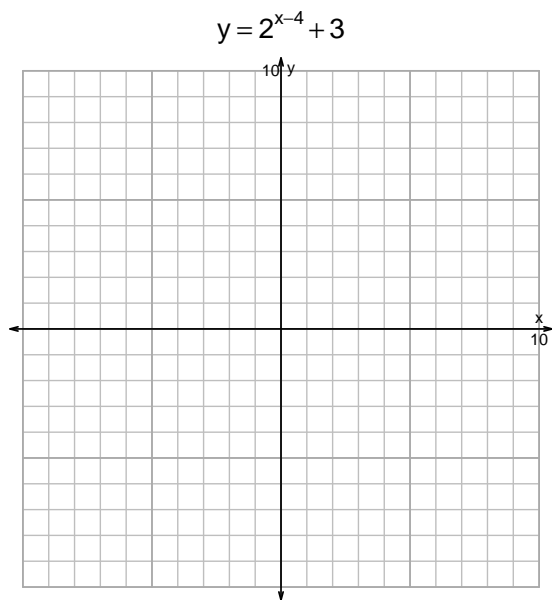


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v297)

1. Graph $y = 2^{x-4} + 3$ and $y = \log_2(x + 3) + 4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-13 = \left(\frac{-5}{3}\right) \cdot 2^{-7t/4}$$

3. An exponential function $f(x) = 0.0141 \cdot e^{2.14x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.5)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(0.006)$.